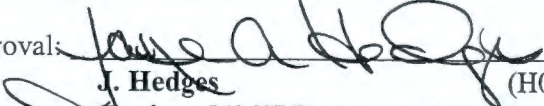
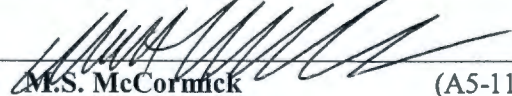


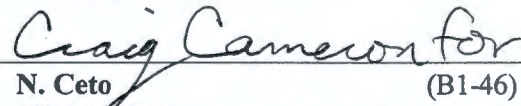
**River Corridor/K-Basins Closure  
Tri-Party Agreement Milestone Review  
Meeting Minutes  
June 19, 2008**

Approval:   
**J. Hedges** (H0-57)  
*Ecology IAMIT Representative*

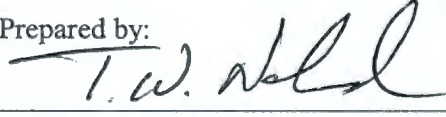
Date: 8/21/08

Approval:   
**M.S. McCormick** (A5-11)  
*DOE IAMIT Representative*

Date: 8/22/08

Approval:   
**N. Ceto** (B1-46)  
*EPA IAMIT Representative, Chairperson*

Date: 8/21/08

Minutes Prepared by:   
**T.W. Noland** (H8-12)  
*Fluor Federal Services, Inc.*

Date: 8/26/08

Ayres, J.M.	Ecology	H0-57	Jim, R.	Yakama	
Bignell, D.T.*	WCH	H4-25	Johnson, W.F.*	WCH	H4-22
Bilson, H.E.	FH	H8-20	Knox, K.E.*	KCR	
Blackburn J.E.*	WCH	H4-15	LaRue, D.N.*	WCH	H0-20
Bond, R.*	Ecology	H0-57	Lobos, R.A.	EPA	B1-46
Bohnee, G.	NPT		McCormick, M.S.	RL	A5-11
Boyd, A.	EPA	B1-46	Niles, K.	OOE	
Buelow, L.C.	EPA	B1-46	Noland, T.W.*	FH	H8-12
Cameron, C.E.	EPA	B1-46	Peres, M.W.	FH	X3-71
Ceto, N.	EPA	B1-46	Pettiette, P.L.	WCH	H0-21
Charboneau, S.L.*	RL	A6-33	Piippo, R.E.*	FH	H8-12
Cimon, S.*	ODE		Post, T.C.*	RL	A3-04
Dagan, E.B.*	RL	A5-11	Price, J.B.*	Ecology	H0-57
Donnelly, J.W.*	WCH	H4-22	Romine, L.D.	RL	A6-33
Engelmann, R.H.	FH	H8-12	Ruscitto, D.G.	FH	A3-06
Faulk, D.A.*	EPA	B1-46	Russell, R.W.*	ORP	H6-60
Fox, M.B.	WCH	B4-24	Sands, J.P.	RL	A3-04
Franco, J.R.*	RL	A3-04	Skinnarland, E.R.	Ecology	H0-57
Gadbois, L.E.*	EPA	B1-46	Spencer, C.G.*	WCH	H4-24
Guercia, R.F.*	RL	A3-04	Stevens, J.M.*	FH	R3-60
Harris, S.	CTUIR		Watson, D.J.*	FH	X3-79
Hedges, J.	Ecology	H0-57	Weil, S.R.*	RL	A5-16
Henry, D.	OOE		Whalen, C.*	Ecology	H0-57
Horst, L.	OOE		Wilkinson, R.E.	FH	H8-46
			Administrative Record		H6-08

\*Attendees

**RECEIVED**  
AUG 28 2008

**EDMC**

**River Corridor/FFTF  
Tri-Party Agreement Milestone Review  
Meeting Minutes  
June 19, 2008**

**River Corridor Closure Project portion of M-16/M-89/M-93/M-94**

DOE distributed a handout summarizing milestone status, accomplishments, planned actions, performance summary, and issues.

**River Corridor Milestone Status**

M-16-67, Submit a Characterization Sampling and Analysis Plan (SAP) for 618-10 and 618-11 Burial Grounds to EPA for approval as a Primary Document

DOE stated that a letter is being prepared to transmit the SAP to EPA.

M-16-56, Complete Interim Remedial Actions for 100-IU-2 and 100-IU-6

EPA stated that DOE and EPA are reviewing the draft TPA change package and are conceptually on agreement for the revised milestone.

M-16-94, Complete Interim Remedial Action at 100-B/C Area (not covered by M-16-45)

DOE stated that WCH has an action to schedule a workshop with EPA, Ecology, DOE and Fluor Hanford to identify the issues and determine how the schedule will be developed for 100-C-7.

**River Corridor Significant Accomplishments - For Last 3 Months**

M-16 - Remedial Action/Risk Assessment

Ecology expressed its ongoing concern regarding the regulatory strategy for the reactors in the final RODs for the reactor areas. DOE responded that they are looking into this.

**River Corridor Significant Actions Planned - For Next 3 Months**

Other

EPA expressed concern regarding funding for ERDF excavation. DOE responded that the contract minimum funding will be provided July 1, 2008, which will assure continued activity at ERDF.

DOE reported on the planned demolition of the 184-N and 116-N stacks on Saturday, June 21, 2008.

#### **K Basins Remediation - M-34 Milestone Review**

DOE provided a handout that was used to discuss the M-34 milestone status, significant accomplishments, upcoming activities, KBC project risk status, and total project baseline.

EPA inquired about transition of K-Basins activity to the new PRC contractor and DOE provided a generic discussion of the transition process.





**June 19, 2008**

**River Corridor/K-Basins Closure Milestone Review**

**Place:** EPA Conference Room, 309 Bradley Boulevard, Suite 115, Richland, WA  
**Time:** 10:00 am - 11:00 am  
**Chairperson:** Nick Ceto

**Agenda**

10:00 am      M-16-00 Complete Remedial Actions  
                 M-93-00 Disposition of Surplus Reactors  
                 M-94-00 300 Area Surplus Facilities  
                 M-89-00 324 Bldg. Closure of MW Units  
  
10:45 am      M-34-00 K-Basins Closure Project  
  
11:00 am      Adjourn River Corridor Milestone Review

**Tri-Party Agreement Major Milestone Management Review**  
June 19, 2008

<u>Name</u>	<u>Organization</u>	<u>Mail Stop</u>	<u>Phone</u>
Terry Noland	Huor	H8-12	376-6574
Kathy Knox	Knox Court Reporting		946-5535
RON MARRISON	YAHSGS		376-2994
John Donnelly	WCH	H4-22	372-2043
DEK Black	FH	H8-12	376-8740
DEBNA LATRUE	WCH		375-9431
JEB BLACKBORN	WCH		372-9958
Rick Engelmann	FH	H8-12	376-7485
Tina M. Crane	FH		376-9189
Rick Bond	Ecology		372-7885
Alicia Boyd	EPA		376-4919
Wayne Johnson	WCH		372-9664
JANE HEDGES	ECY		372-7905
Cheryl White	ECY		372-7972
John Price	ECY		372-7921
Laura Below	EPA		376-5466
Dave Eina	EPA		376-3883
Larry Gadbois	EPA		376-9884
BOB BIRCH	FM		373-3285
Jim Rasmussen	YAHSGS		376-0304
Joe Franco	DOE RL		376 6628
R.F. GUERRIA	RL		376-5454
SHARLEY CIMON	OREGON		(SA) 240-0161
Chris Smith	RL		372-1544
Ellen Dagan	RL		376-3811
DAVID KUSEITIN	FH		376-1998
Dana Watson	FH		373-3250
Roger Quintero	DOE-RL		373-0421



# TPA Quarterly Review

For Period: March - May 2008



*Tri-Party Agreement*

## *River Corridor Milestones:*

M-16

M-93

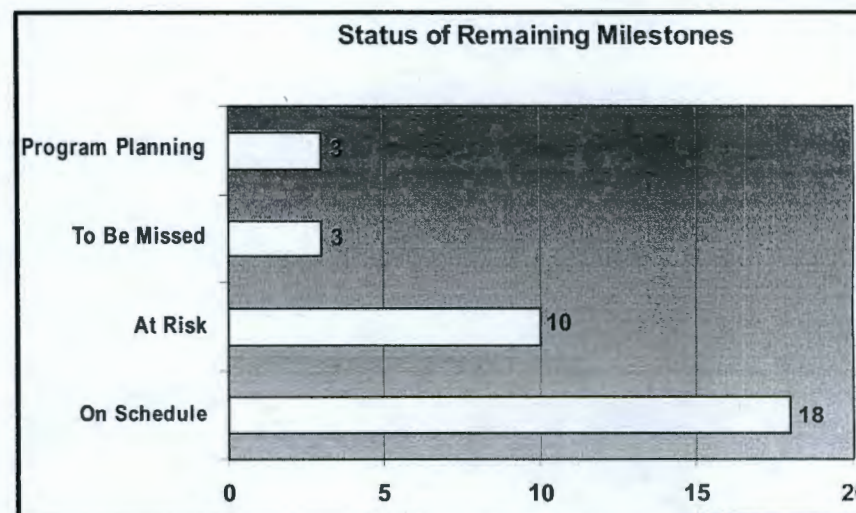
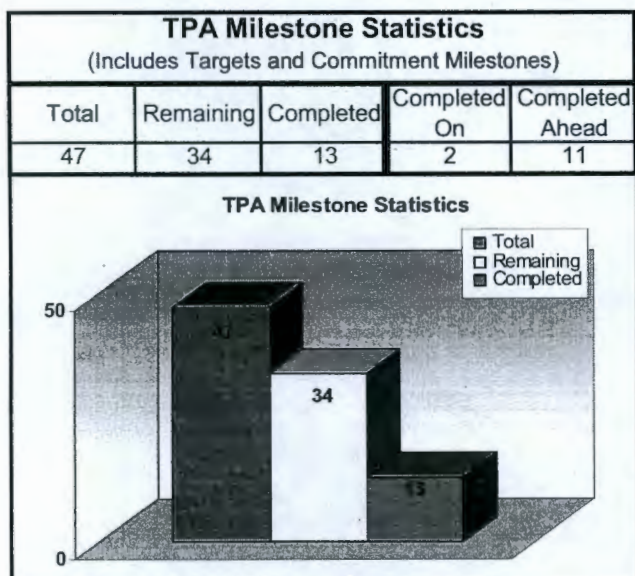
M-89

M-94

U.S. Department of Energy  
U.S. Environmental Protection Agency  
Washington State Department of Ecology

**June 19, 2008**

*Protecting the Columbia River*



### Quarterly Summary (March - May 2008)

- Completed one TPA milestone on 3/13/08 - **M-94-06**, Complete Demolition/Loadout of 3 of 19 Buildings (305B, 306E, 333) in 300 Area (due 6/30/08).
- TPA change requests:
  - No change requests were approved during this reporting quarter.







# RIVER CORRIDOR CLOSURE PROJECT

For Period: March - May 2008

## TPA Milestone Status Report

Status as of: May 31, 2008

	TPA MS No.	Compliance Date	Milestone Title	Status	Comments
14	M-16-51-T02	12/31/2010	Complete Excavation of a Total of 3 of 5 100-H Burial Grounds (118-H-1, 118-H-2, 118-H-3, 118-H-4, or 118-H-5)	On Schedule	
15	M-16-51	12/31/2011	Complete Interim Remedial Actions for 100-H Area	On Schedule	
16	M-16-47	12/31/2011	Complete Interim Remedial Actions for 100-D Area	On Schedule	
17	M-16-74	09/30/2012	Complete Interim Remediation (to include excavation, loadout, closeout sampling, backfill, and revegetation) for all 300 Area "Inside the Fence" Waste Sites North of Apple Street, Except that for the 300-RLWS, 300-15, 300-4, 300-268, and 300-123 Waste Sites, Remediation Need Only Be Completed Through Excavation and Loadout	On Schedule	Initial planning only.
18	M-16-53	12/31/2012	Complete Interim Response Actions for 100-K Area	At Risk	Potential impact due to K-Basin schedule/milestones. See M-16-57 status also. NOTE: Under TPA CR M-34-04-01 -- 100-K Area remedial action is not complete until K-Basin sludge shipments for disposal off site have taken place.
19	M-16-55	12/31/2012	Complete Interim Response Actions for 100-N Area	At Risk	
20	M-16-62	12/31/2012	Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites: 300-8, 300-18, 300-VTS, 316-4, 600-47, 600-259, 618-2, 618-3, 618-5, 618-7, 618-8, and 618-13 (see Table 1 in TPA CR M-16-01-06)	On Schedule	
21	M-16-00A	12/31/2012	Complete All Interim Response Actions for the 100 Areas	At Risk	Remediation of high priority waste sites continues in order to be protective of groundwater and river, meet current milestones in other areas, and effectively utilize existing resources. K-Basin schedule may cause impact.
22	M-16-75	09/30/2013	Initiate Substantial and Continuous Remediation on the 309 Facility Dedicated Radioactive Liquid Waste Sewer (300 RLWS) and the 300 Area Process Sewer (300-15) Systems	On Schedule	Preplanning stage.
23	M-16-69	09/30/2015	Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of All Candidate Sites Listed in 300-FF-2 ROD (except for 618-10 and 618-11 Burial Grounds)	At Risk	PNNL plans to retain occupancy of some 300 Area buildings beyond 2015, which will also impact remediation of any waste sites under the buildings.
24	M-16-00B	09/30/2018	Complete All Interim 300 Area Remedial Actions Including 618-10 and 618-11 Burial Grounds	At Risk	PNNL plans to retain occupancy of some 300 Area buildings beyond 2015, which will also impact remediation of any waste sites under the buildings.
25	C-16-06C	TBD	Submit a Schedule and Establish Commitments to Complete the Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 100 Area	Program Planning	RL, EPA, and Ecology are discussing schedules.
26	C-16-06D	TBD	Submit a Schedule and Establish Commitments to Complete the Remedial Investigation/Feasibility Studies and Proposed Plans in Support of the Final ROD for the 300 Area	Program Planning	RL, EPA, and Ecology are discussing schedules.

Protecting the Columbia River



## TPA Milestone Status Report

Status as of: May 31, 2008

Status as of: May 31, 2008

TPA MS No.	Compliance Date	Milestone Title	Status	Comments	
M-89 Milestones - 324 Bldg Non-Permitted MW Units Closure					
1	M-89-00	09/30/2010	Complete Closure of Non-Permitted Mixed Waste Units in 324 Building REC B-Cell, REC D-Cell, and High Level Vault	On Schedule	Planning only.
M-93 Milestones - Reactors Final Disposition					
1	M-93-22	09/30/2011	Complete 105-KE and 105-KW Reactor Interim Safe Storage	To Be Missed	Stop-work order was issued for both KE and KW work. Milestone will be missed based on the RL schedule provided in M-34-40-T02.
2	M-93-20	09/30/2012	Complete 105-N Reactor Interim Safe Storage	On Schedule	Milestone is on schedule, but may be impacted by anticipated FY08/09 funding. Contractor bid evaluations have been completed. Bid package planned to be submitted to RL mid-June for approval. Based on the contractor bid schedules, the milestone should still be met if full funding is received in FY09, and contract is awarded by October 1, 2008.
3	M-93-00	TBD	Complete Final Disposition of All 100 Area Surplus Production Reactor Buildings. 100 Area surplus production reactor buildings consist of the following: 105-D, 105-DR, and 105-H, 105/109-N (Ecology lead), and 105-B, 105-C, 105-F, 105-KE, and 105-KW (EPA lead).	Program Planning	
M-94 Milestones - 300 Area Surplus Facilities Disposition					
1	M-94-06	06/30/2008	Complete the Selected Removal and/or Remedial Actions that are Selected for 3 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 333 Facility	COMPLETE	Bldg 305B completed in Sep 2006. 306E above-grade (AG) demolition completed 12/22/06; AG loadout completed 5/3/07. Bldg 333 AG demolition was completed 9/28/06; AG loadout completed 2/23/08 with the removal of the Loewy press. 306E and 333 deferral forms signed on 3/13/08. RL sent completion letter to EPA on 3/14/08 (08-AMRC-0138).
2	M-94-07	12/30/2009	Complete the Selected Removal and/or Remedial Actions that are Selected for 6 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 306E, 306W, 3720, and 305B Facilities	On Schedule	Bldgs 305B, 306E, 333 completed under M-94-06 (March 2008). In addition, Bldg 3706 above-grade (AG) demolition completed 6/3/07; AG loadout completed 7/19/07. Bldg 306W AG demolition completed 9/28/07; AG loadout completed 12/15/07. Bldg 3720 AG demolition completed 7/17/07; below-grade demolition/loadout scheduled for August 2008.
3	M-94-03	09/30/2010	Complete Disposition of Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (see TPA CH M-94-01-01, Table 1)	On Schedule	3221,3222,3223,3224 demolished May 2002 by Fluor Hanford. 334 and 3225 (November 2005), 334A (December 2005), 303M (June 2006), and 333 (February 2008) demolished/loaded out by WCH. 303M pad remains. Sequenced with M-89-00.
4	M-94-08	12/31/2011	Complete the Selected Removal and/or Remedial Actions that are Selected for 12 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720	On Schedule	See M-94-06/M-94-07 status.
5	M-94-09	09/30/2013	Complete the Selected Removal and/or Remedial Actions that are Selected for 15 of the Following 19 High Priority Facilities: 305B, 306E, 306W, 307 Retention Basins, 308, 309, 321, 323, 324, 324B, 325, 326, 327, 329, 333, 340, 3706, 307 Trench, and 3720; to include the 323 Facility and the 307 Trench	On Schedule	See M-94-06/M-94-07 status.
6	M-94-00	09/30/2015	Complete Disposition of 300 Area Surplus Facilities to be Defined as the 220 Facilities Listed in the Hanford River Corridor Closure Contract Solicitation #DE-RP06-04RL14655	At Risk	PNNL plans to retain occupancy of some 300 Area buildings beyond 2015, which will also impact remediation of any waste sites under the buildings. Some of the 220 facilities are no longer surplus and need to be removed from this milestone.



## Significant Accomplishments – For Last 3 Months:

### M-16 – Remedial Action / Risk Assessment:

- Completed demobilization at 100-B/C Area.
- Completed shipment of 13 spent nuclear fuel (SNF) pieces from 100-D to K-Basins.
- Completed backfill of all 100-F Area excavated sites.
- Completed demobilization of all equipment and personnel at 100-F.
- Shipped 100-F anomaly waste to ERDF.
- Awarded 100-H Area burial grounds and remaining sites remediation subcontract on 4/15/08.
- Continued actions to place 118-K-1 site in a safe shutdown condition.
- Continued excavation of 300 Area 618-7 Burial Ground; 319 drums processed.
- Submitted 618-10/11 non-intrusive sampling and analysis plan (SAP) on 5/6/08 to RL for review.
- Completed waste characterization sampling at 600-149 Small Arms Range site.
- Approved 9 waste site closure documents during reporting period.
- Completed development of the *Remedial Investigation Work Plan for Hanford Site Releases to the Columbia River* (Internal Draft).
- Continued Draft B development of the *River Corridor Baseline Risk Assessment (RCBRA) Report, Source and Groundwater Component*.
- Continued working with the Tri-Parties, Fluor Hanford, and WCH to further refine the path forward for the final River Corridor ROD strategy.
- Initiated data processing of the Light Detection and Ranging (LIDAR) and orthophotography data in support of the Inter-Areas orphan site evaluations.

### M-89 – 324 Bldg Non-Permitted Mixed Waste Units Closure:

- Relocated personnel out of the 324 building in order to facilitate deactivation activities in the administrative portions of the building. Conducted planning and characterization activities to begin hazardous material removal.

### M-93 – Reactors Final Disposition:

- Continued 109N subcontractor deactivation and hazardous material removal.
- Continued 105N office space hazardous material removal and asbestos abatement. Commenced subcontractor scaffold erection and asbestos abatement.
- Received 105N/109N demolition/safe storage enclosure bid proposals.

### M-94 – 300 Area Surplus Facilities Disposition:

- Completed deactivation and decommissioning of 12 buildings (323, 337B, 3718, 3718A, 3718B, 3718C, 3718G, 3718N, 3128, 3721, 3727, 3728).
- Completed demolition of 3503A and 384; loadout continuing.
- Completed 327 Basin draining.
- Submitted 327 Hot Cell One Time Request for Shipping, and Final Hazard Categorization to RL for review/approval.



Placing Excavated Drum from 618-7 into Drum Penetrating Facility



126-D-2 Excavation



384 High Bay Demolition

Protecting the Columbia River



**Significant Accomplishments – For Last 3 Months (cont'd):****Other:**

- Received approval of ERDF Waste Material Management Plan to allow utilization of compactors and 1:1 soil-to-debris ratio, and a 2:1 ratio for predominantly steel. Implementation occurred 4/21/08.
- Completed ERDF Cells 7/8 excavation activities on 5/21/08.
- Completed sealed double ring infiltrometer (SDRI) testing for ERDF Cells 7/8. RL and EPA concurred that ASTM requirements were met which allowed admix placement to begin.
- Through May 2008, more than 1.3 million tons of contaminated material have been disposed in ERDF since WCH assumed River Corridor cleanup responsibilities (8/27/05). More than 7.4 million tons of waste have been disposed since ERDF operations began in July 1996.



Preparing ERDF Cells 7/8 Admix Placement Subgrade

**Significant Actions Planned – For Next 3 Months:****M-16 – Remedial Action / Risk Assessment:**

- Initiate characterization of suspect SNF recently discovered at 100-D Area.
- Prepare CVPs/RSVPs for various 100-F waste sites.
- Initiate 100-H remediation activities at 118-H-1.
- Complete 118-K-1 project shutdown and closeout activities.
- Complete 600-149 Small Arms Range excavation.
- Continue excavation of 618-7 trenches.
- Submit 618-10/11 SAP to EPA mid-June.
- Complete/distribute RCBRA Report, Source and Groundwater Component, Draft B, for RL review.
- Distribute the Remedial Investigation Work Plan for Hanford Site Releases to the Columbia River, Draft A for Tri-Party and stakeholder review. Hold comment disposition working sessions with the Tri-Parties.
- Coordinate with Fluor Hanford's hydraulic hammer rig investigation at 100-D Area per interface agreement to analyze the vadose zone for chromium.
- Issue the 100-D Area Orphan Sites Evaluation Report.

**M-89 – 324 Bldg Non-Permitted Mixed Waste Units Closure:**

- Conduct hazardous material removal.

**M-93 – Reactors Final Disposition:**

- Complete 109N subcontractor hazardous material removal.
- Continue 105N hazardous material removal and asbestos abatement.
- Submit 105N demolition/safe storage enclosure bid package to RL for approval.

**M-94 – 300 Area Surplus Facilities Disposition:**

- Complete demolition of 321 Complex and 323 Mechanical Properties Laboratory.
- Complete loadout of 384 Power House.
- Excavate 327 basement ramp for hot cell removal.

**Other:**

- Treat lead-contaminated soil from 618-7 Burial Ground.
- Continue placing admix layer in ERDF Cells 7/8.
- Begin Cells 7/8 geosynthetic liner installation.



## PERFORMANCE SUMMARY

Contract Inception (8/25/05) through May 2008  
(\$K)

	IPB		CUMULATIVE			SCHEDULE VAR		COST VAR	
	BCWS	EAC	BCWS	BCWP	ACWP	\$	SPI	\$	CPI
D4	630,967	630,967	162,023	191,619	122,950	29,596	1.18	68,669	1.56
Reactor ISS	115,988	115,988	28,283	18,621	13,296	-9,662	0.66	5,325	1.40
Field Remediation	432,865	432,865	146,340	152,365	134,114	6,025	1.04	18,251	1.14
Waste Operations	260,237	260,237	58,327	69,540	91,067	11,213	1.19	-21,527	0.76
ESFC	57,410	57,410	14,218	23,875	14,989	9,657	1.68	8,886	1.59
Mission/General Support	323,259	323,259	101,867	101,867	114,518	0	1.00	-12,651	0.89
Transition	3,979	3,979	3,979	3,979	3,752	0	1.00	227	1.06
Undistributed Budget	7,128	7,128							
Contingency	221,664	221,664							
<b>TARGET COST TOTAL</b>	<b>2,053,496</b>	<b>2,053,496</b>	<b>515,037</b>	<b>561,865</b>	<b>494,686</b>	<b>46,828</b>	<b>1.09</b>	<b>67,179</b>	<b>1.14</b>

### Schedule Variance (PMB): \$46,828K

- Acceleration of 300 Area and 100-N Area building demolitions.
- Delayed approval/award of 105N demolition/safe storage enclosure subcontract.
- Stop-work at KE/KW Reactor ISS (RL direction).
- 100-F, 100-D, 100-B/C waste site accelerations/completions.
- 100 Area remediation delays due to discovery of chromium, anomalous waste, nuclear safety issues, quantity growth; delay at 618-7 Burial Ground due to high risk nature of the scope.
- Acceleration of Inter-Area flight surveys in support of orphan site evaluations.

### Cost Variance (PMB): \$67,179K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities.
- Significant underruns in 300 Area utility charges and S&M activities.
- Favorable cost experienced to-date in remediation of burial grounds at 100-F, 100-D, and 100-B/C Area waste sites, and in confirmatory sampling. Partially offset by increased costs associated with 118-K-1 readiness, slow production due to hard-to-detect radionuclides and anomalies and interim shutdown costs; 618-10/11 design solution submittal; and significant project support costs at all active dig sites.
- ERDF cost overruns in transport, treatment, and disposal of waste due to operational issues; overrun in purchase and leasing of additional equipment; and transportation and disposal subcontractor mobilization.
- Efficiencies realized during Inter-Areas sampling and flight surveys, preparation of Integrated Strategy for Cleanup Decisions, and orphan sites evaluations.
- RadCon, Industrial Safety, and Environmental Support services greater than planned.
- Increased Employee Concerns Program, conduct of operations, and regulatory interface resources.

## ***RCC Issues***

- **M-16-56 - Complete Interim Remedial Actions for 100-IU-2 and 100-IU-6 (due 12/31/08).** Milestone will be missed.  
**Status:** At regulator request, remediation of the 600-149 waste site and plutonium criticality lab are high priority sites. A draft TPA change package was prepared. EPA provided comments to RL. A revised package is under development by RL and EPA.
- **M-16-94 - Complete Interim Remedial Actions at 100-B/C Area (not covered by M-16-45) (due 12/31/09).** Chromium contamination.  
**Status:** RL working on design at 100-C-7 to dig to 35 feet. Additional technology evaluations for soil treatment using calcium polysulfite are being discussed and a path forward needs to be developed.
- **116-N-1 Dispute.**  
**Status:** 116-N-1 CVP was finalized incorporating resolved comments as agreed to by RL and WCH in an August 2007 meeting. The 116-N-1 Waste Site Reclassification Form (WSRF), Rev. 0 CVP, and the comment response package for remaining unresolved comments were formally transmitted to RL on 9/28/07 for submittal to Ecology for approval. Ecology received the WSRF, signed by RL, at a meeting with RL on 10/24/07. Ecology agreed that source unit work was complete and backfill appropriate; however, Ecology formally rejected the WSRF for interim closure on 12/20/07. RL submitted a Statement of Dispute to Ecology on 1/18/08. Dispute was discussed at March and April IAMIT. Based on the April IAMIT, specific additional information will be added or clarified in the 116-N-1 CVP and then resubmitted for site reclassification approval. Revision to the CVP is in progress.
- **ERDF Soil-to-Debris Ratio.** On 6/18/07 WCH began using daily operational cover (DOC) to maintain the required 3:1 soil-to-debris compaction ratio.  
**Status:** The ERDF Placement Optimization and Settlement Monitoring Test Plan was approved by RL and EPA. Compaction test pad construction began on 8/13/07 in an effort to reduce the soil-to-debris ratio. Waste Material Management Plan was revised and subsequently approved to utilize 1:1 soil-to-debris ratio, except for large steel which will be at a 2:1 soil-to-debris ratio. Implementation of the 1:1 ratio was achieved on 4/21/08. **This issue is closed.**



# **Hanford K Basins Remediation**

## ***Tri-Party Agreement M-34 Milestone Review***

***U.S. Department of Energy  
Richland Operations Office (RL)  
River Corridor Project***

***June 19, 2008***



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# **TPA Milestone Status**

## **Remaining Milestones Due Fiscal Year 2008-2009**

<b>Number</b>	<b>Milestone Title</b>	<b>Due Date</b>	<b>Status/Comments</b>
M-34-30	Initiate Sludge Treatment This interim milestone will be complete following treatment and packaging of the first unit of sludge into a form that is certifiable for disposal offsite.	12/31/2008	Anticipated to be missed. A change package per M-34-40 based on M-34-40-T01 and M-34-40-T02 was transmitted with proposed adjustments to this milestone.
M-34-32	Complete Removal of the K East Basin Structure This interim milestone will be complete when spent nuclear fuel, sludge, debris and water are removed from the K East Basin and the upper building and concrete basin are removed.	09/30/2009	On Schedule.
M-34-31	Complete Sludge Treatment This interim milestone will be complete following treatment and package of all sludge for disposal offsite.	11/30/2009	Anticipated to be missed. A change package per M-34-40 based on M-34-40-T01 and M-34-40-T02 was transmitted with proposed adjustments to this milestone.
M-34-40-T01	Submit a detailed description of overall work scope and interfaces for 100K Area Closure	01/31/2008	Complete.
M-34-40-T02	Submit a detailed schedule and budget profile for 100K Area Closure	03/31/2008	Complete.
M-34-40	Submit 100K Area Change Package with proposed milestone changes.	05/31/2008	Complete.
M-34-00A	Complete removal of the K Basins and their contents. Unless otherwise noted, the term "K Basins" is used to denote both K East and K West Basins. Note: This milestone will be complete when both K East and K West Basins, spent nuclear fuel, sludge, debris, and water are removed.	03/31/2009	Anticipated to be missed. Requires completion of M-34-31 that will involve removal of sludge from K West Basin for treatment. A change package per M-34-40 based on M-34-40-T01 and M-34-40-T02 was transmitted with proposed adjustments to this milestone.



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# ***Significant Accomplishments and Status***

## **Overall Project**

- A detailed schedule and budget profile for 100K Area closure was submitted to EPA.
- A TPA change package with proposed changes to M-34 milestones was submitted to EPA.

## **K East Basin**

- Dewatering of the Basin was completed.
- Utility services to the K East Basin have been disconnected.
- Basin was filled with a controlled density fill to facilitate building demolition.
- Super structure demolition has commenced.

## **K West Basin / Cold Vacuum Drying Facility**

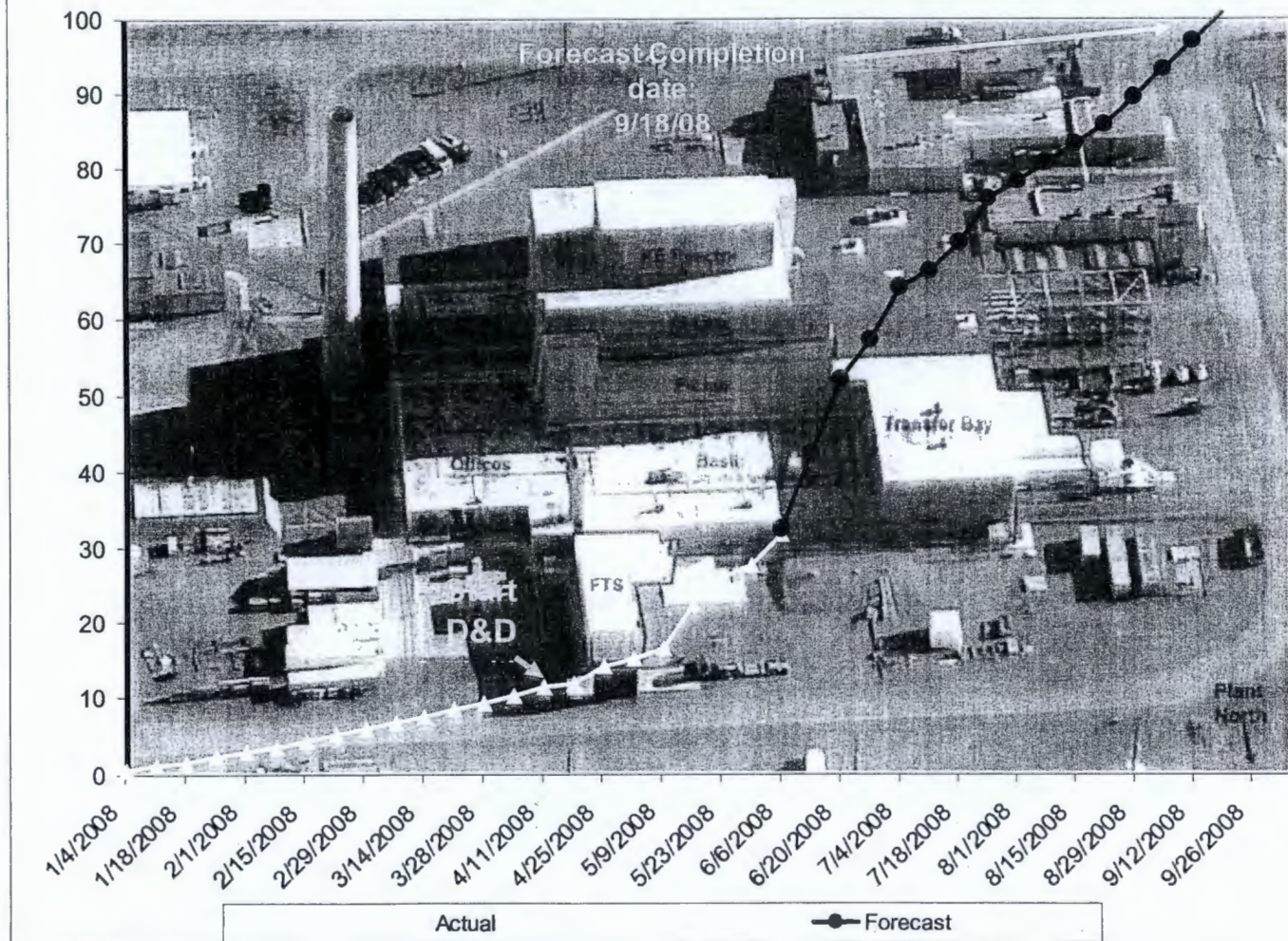
- Completed training and maintenance to restore fuel processing equipment to service for upcoming Multi-Canister Overpack (MCO) shipments of spent nuclear fuel found during sludge and debris removal.
- Completed debris canister sorting to prepare for legacy fuel processing.
- Performed readiness self-assessment in preparation for upcoming Operational Readiness Reviews (ORRs).



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## K East Superstructure Demolition Summary

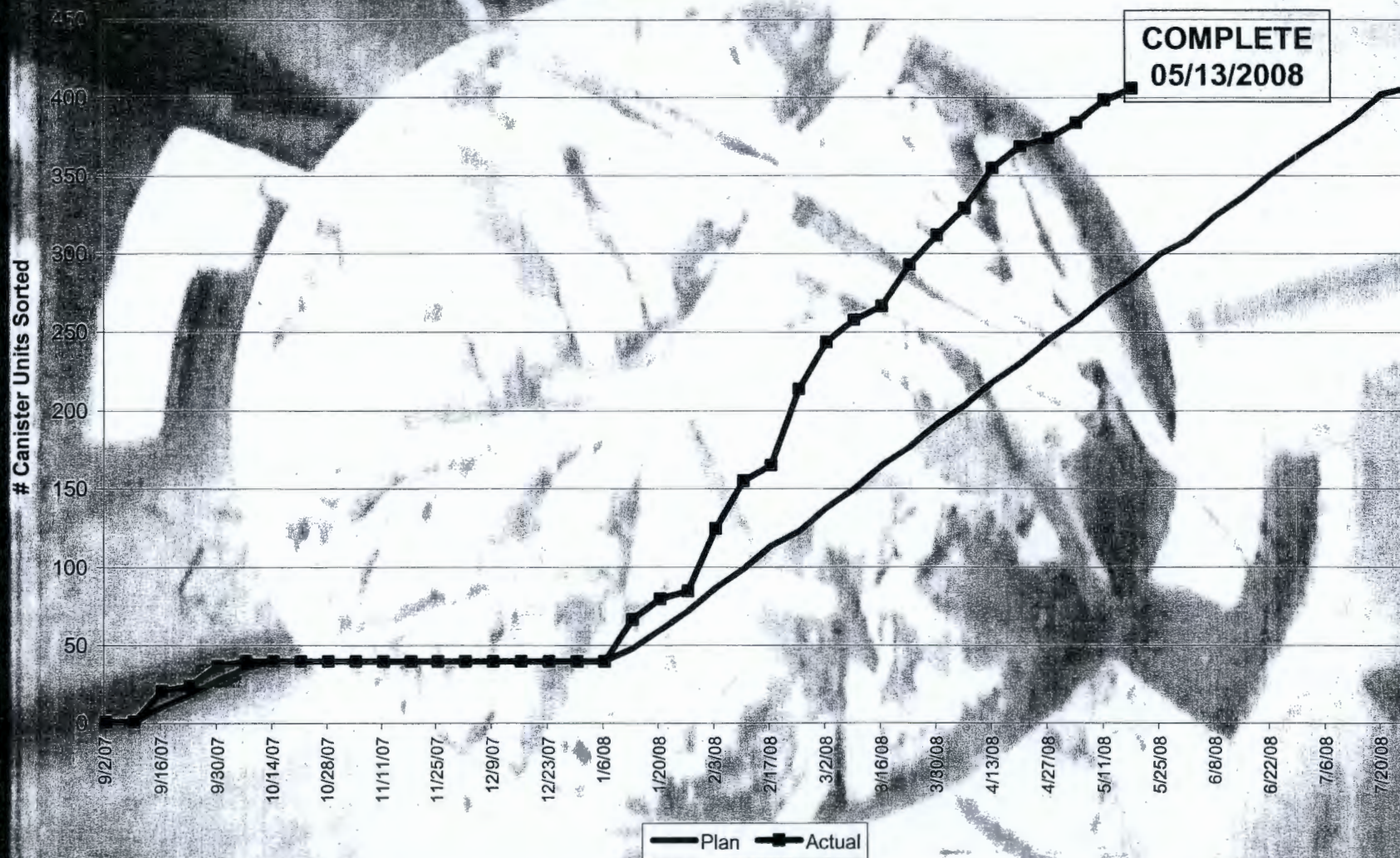


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## Debris Canister Units Sorted for Legacy Fuel



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# ***Significant Accomplishments and Status - continued***

## **Sludge Treatment**

- Engineering:
  - *Conceptual design activities for both above and below water grouting of container sludge continues.*
  - *An analysis of alternative means of dispositioning sludge is in progress which includes treatment at 100K, treatment and/or storage at the 200 Areas, and treatment and/or storage off Hanford Site.*
  - *An evaluation of the feasibility of managing knock-out pot sludge as spent nuclear fuel has started.*
  - *Testing needs have been identified in a test plan as required to support Critical Decision 1.*
  - *Design was completed on the equipment that will be used to sample container sludge.*



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# ***Significant Accomplishments and Status - continued***

## **Sludge Treatment - continued**

- Testing:
  - *Testing at Maintenance and Storage Facility (MASF) of the system to be used for retrieving settler tube sludge was successful.*
  - *Testing at MASF on the system that will be used to filter the solids from the effluent from the sludge consolidation container that will receive the sludge transferred from the settler tubes was started.*
  - *Testing at an offsite facility continues in evaluating grout mixtures with sludge simulants under water and above water.*
  - *Testing at MASF of the system that will be used to sample container sludge has been successfully completed.*
  - *Testing at PNNL using the WTP M-1 test loop for testing of rheology modifiers, solids instrumentation, and mixing is being planned.*
- Sludge Characterization:
  - *A Data Quality Objective (DQO) for sampling all sludge streams is being prepared with input from WIPP.*
  - *A Sampling Analysis Plan (SAP) and Quality Assurance Project Plan (QAP<sub>j</sub>P) for sampling container sludge was initiated.*



# ***Upcoming Activities (Next Three Months)***

## **K East Basin**

- Complete demolition preparations for office and basin.
- Complete demolition preparations for F/G line.
- Complete Fuel Transfer System (FTS) and office demolition.
- Complete Basin demolition.
- Complete F/G line demolition.
- Complete removal of all of K East superstructure.

## **K West Basin / Cold Vacuum Drying Facility**

- Complete ORRs for MCO restart operations.
- Remove found fuel from K West Basin.
- Treat found fuel at Cold Vacuum Drying Facility (CVDF) and ship to Canister Storage Building (CSB).



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## ***Upcoming Activities (Next Three Months)***

### **Sludge Treatment**

- Continue with conceptual design activities associated with retrieval, transfer, assay, and treatment by solidification of containerized sludge, and package handling systems.
- Complete the alternative analysis and selection process.
- Respond to WIPP comments and approve the "DQO Document for Sludge Characterization" that addresses sludge characterization for Containers, Settler Tanks, and Knock Out Pots.
- Design and testing for Settler Tank and KOP sludge sampling system.
- Continue CD-1 testing for critical technology elements:
  - Investigate sludge rheology modifiers
  - Develop basic grout/sludge formulations
  - Assess solids measurement process control instrumentation
  - Evaluate sludge mixing hardware
  - Top retrieval testing from K West sludge containers



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## ***KBC Project Risk Status***

Risks are those factors associated with the Project, both existing and emerging, that can result in cost and schedule impacts. The process by which risks are identified and managed is described in the "KBC Project Risk Management Plan," KBC-28211.

Sub-project	Major Remaining Risks with "Possible" or "Likely" Likelihood of Occurrence and Risk Mitigation	Emerging Risks and Risk Mitigation
<b>K East Basin</b>	1. None at this time	
<b>K West Basin</b>	<ol style="list-style-type: none"> <li>1. Future fuel and sludge handling will have potential to deposit additional sludge on K West Basin floor. Risk Mitigation: Design sludge handling systems with provisions to minimize depositing additional sludge on basin floor.</li> <li>2. Need to process "found spent nuclear fuel" with a water treatment system with limited remaining life. Risk Mitigation: Limit operation of integrated water treatment system to just those times required for processing remaining spent nuclear fuel.</li> <li>3. Receipt of more spent nuclear fuel from other cleanup activities at Hanford. Risk Mitigation: Coordinate with RL and River Corridor Contractor.</li> </ol>	



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## ***KBC Project Risk Status - continued***

Risks are those factors associated with the Project, both existing and emerging, that can result in cost and schedule impacts. The process by which risks are identified and managed is described in the "KBC Project Risk Management Plan," KBC-28211.

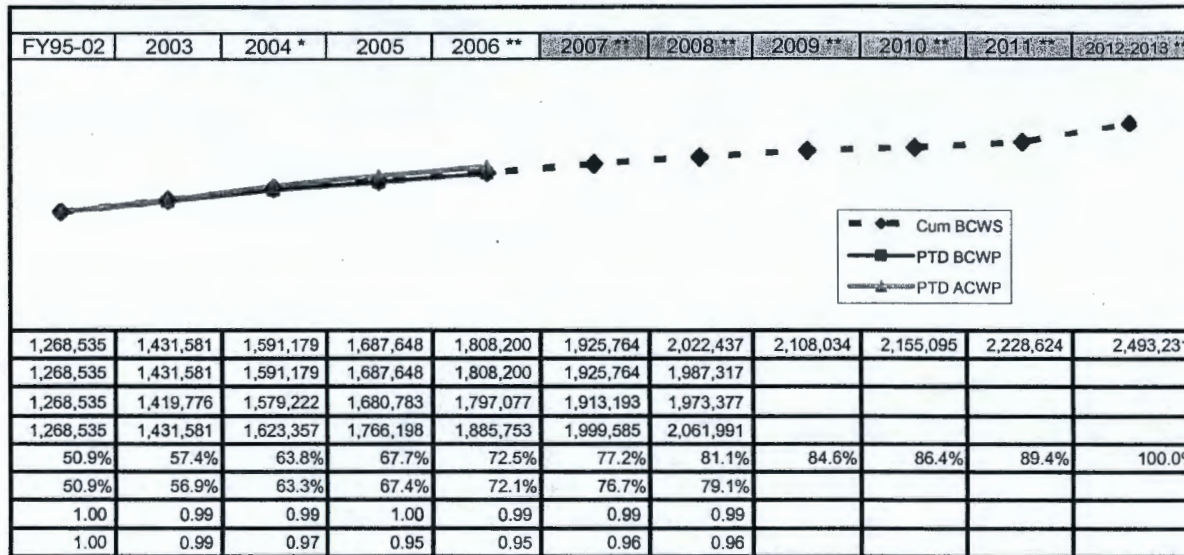
<b>Sub-project</b>	<b>Major Remaining Risks with "Possible" or "Likely" Likelihood of Occurrence and Risk Mitigation</b>	<b>Emerging Risks and Risk Mitigation</b>
<b>Cold Vacuum Drying Facility (CVDF) Fuel Processing</b>	<ol style="list-style-type: none"> <li>1. Equipment failure extends processing duration or preparation efforts. Risk Mitigation: Maintain preventative maintenance program.</li> </ol>	
<b>Sludge Treatment</b>	<ol style="list-style-type: none"> <li>1. Results from the Testing program yield different outcome than expected forcing redesign and/or different technology selection. Risk Mitigation: Conduct testing necessary to support Critical Decision-1 in a timely manner.</li> <li>2. PAS-1 cask not available for transporting sludge samples when the project requires. Risk Mitigation: Continue interface with Washington Closure Hanford (the contractor responsible for the cask) or lease a dedicated cask for STP needs.</li> <li>3. Feedback from CCP/CBFO and it's stakeholders. Risk Mitigation: Obtain feedback in a timely manner to minimize impact to project schedule.</li> </ol>	



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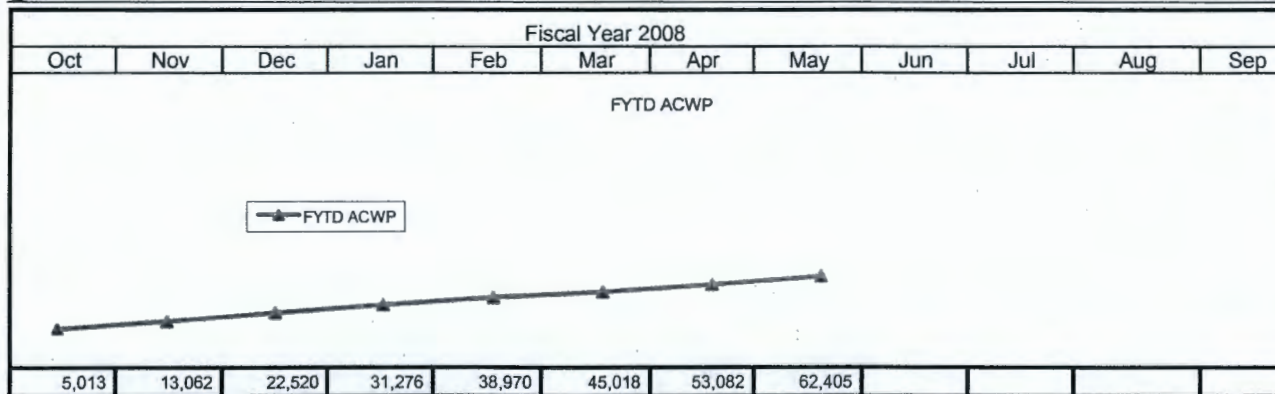
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# PBS RL-0012 – Total Project Baseline



Life Cycle	
*BAC=	2,493,231
EAC=	2,567,052
BCWS=	1,987,317
BCWP=	1,973,377
ACWP=	2,061,991
SV=	(13,940)
CV=	(88,614)

Cum BCWS  
PTD BCWS  
PTD BCWP  
PTD ACWP  
% Sch  
% Cmpl  
SPI  
CPI



FYTD ACWP

\* PHMC Rebaseline Sludge Retrieval & Disposition Project and Decontamination & Decommission Project  
 \*\* FH/KBC EIR Validated Baseline



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***PBS RL-012***  
***Project Performance through May FY 2008***  
(\$ in thousands)

**FYTD ACWP**

Safe and Compliant (Peres)	\$ 12,497
Sludge Retrieval and Disposition (Peres)	\$ 14,261
Sludge Treatment (Ruscitto)	\$ 9,890
K East D&D (Wilkinson)	\$ 21,268
Contract Transition Prep (Office of President)	\$ 147
Closure Services	\$ 4,342
<b>TOTAL</b>	<b>\$62,405</b>



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